F0 007 909 602

REPUBLIC OF BOTSWANA

Central Statistics Office
Private Bag 0024, Gaborone

AGRICULTURAL CENSUS 1993

Collected under the Statistics Act (Cap. 17:01)

CONFIDENTIAL

Form III: Traditional Farmers – Second Visit

Section I: Identification

(Number)

1 Agricultural Region: _____ 1
2 Agricultural District: _____ 2
3 Block Number 3
4 Dwelling Number 4
5 Household Number 5

6 Name of Holder

7 Name of Respondent

8 Is the respondent the:

(Circle appropriate code)

1 Holder 1
2 Spouse 2
3 Son 3
4 Daughter 4
5 Other relative 5
6 Other person 6

9 Name of Enumerator *(Name)* *(Code)*

10 Enumerator's Visit Log

Visit No.	Date	Time	Remarks

11 Name of Supervisor *(Name)* *(Code)*

Enumerator / Supervisor Comments

.....
.....
.....
.....
.....
.....
.....
.....

Enumerator's Signature:

_____

Date: / /93

Supervisor's Signature:

_____

Date: / /93

(Office Use)

	A	B	C	D	E	F	G	H	I	J
Form I										
Form II										

Record Control: *(Office Use)*

Section II : *Livestock*

Part A : Cattle

12 a. Do you or anyone living in your household own, raise, operate or manage any cattle?

(Circle code)
Yes = 1 ⇨ *Question 13*
No = 2

b. Have you or anyone living in your household owned, raised, operated or managed any cattle in the last 12 months?

(Circle code)
Yes = 1 ⇨ *Question 14*
No = 2 ⇨ *Part B of this Section*

Note: For the questions following, include cattle mafisa in, hired and or borrowed but exclude mafisa out or given out on loan

13 **a (Total)** How many of the following do you have?

		(Number)
1. Bulls	1	
2. Oxen	2	
3. Cows (3 years and over)	3	
4. Tollies (1 to 3 years old)	4	
5. Heifers (1 to 3 years old)	5	
6. Calves (under 1 year old)	6	
7. **Total (1 to 6)**	7	

b (Major Breed) Which is the major breed among your catlle? *(Office Use)*
(eg. Brahman, Simental etc) _____

c (Bull Type) What is the main bull type or semen used? *(Office Use)*
(Specify) _____

14 **(Births)** How many calves were born in the last 12 months? *(Number)*

15 **a (Deaths)** How many cattle, excluding calves, died in the last 12 months? *(Number)*
Include those that died from disease, parasites, accidents or killed by animals or natural causes.

b (Deaths) How many calves died in the last 12 months? *(Number)*

16 **(Lost)** How many cattle including calves have been lost due to strays and theft in the last 12 month? *(Number)*
Do not include cattle already reported as having died.

17 **(Home Consumption)** How many cattle were slaughtered for your home consumption in the last 12 months? *(Number)*

18 **(Given away)** How many cattle were given away (including Bogadi) in the last 12 months? *(Number)*

19 **(Sold)** How many cattle were sold for cash or traded out in the last 12 months?

		Sold		Traded		
		Number	Value (Pula)	Number	Value or Description	*(Office Use)*
1. BMC direct	1					
2. BMC agent	2					
3. Cooperative	3					
4. Another farmer	4					
5. At auction	5					
6. Municipal abattoir	6					
7. Local/Village abattoir	7					
8. Trader	8					
Other *(Specify)*						

_____

20 **(Purchased)** How many cattle were purchased or obtained in the last 12 months?

1. Purchased
   - **Number**
   - **Value (Pula)**

2. Obtained

Number	Value or Description

(Office Use)
(N)
(V)

Part B: Goats

21 a. Do you or anyone living in your household own, raise, operate or manage any goats?

(Circle code)
Yes = 1 ⇨ *Question 22*
No = 2

b. Have you or anyone living in your household owned, raised, operated or managed any goats in the last 12 months?

(Circle code)
Yes = 1 ⇨ *Question 23*
No = 2 ⇨ *Part C of this Section*

22 **(Total)** How many of the following do you have?

		(Number)
1. He goats 1 year and over	1	
2. Castrated male goats 1 year and over	2	
3. Female goats 1 year and over	3	
4. Male goats under 1 year	4	
5. Female goats under 1 year	5	
6. Total (1 to 5)	6	

23 **(Births)** How many kids were born in the last 12 months? *(Number)*

24 **a (Deaths)** How many goats, excluding kids, died in the last 12 months? *(Number)*
Include those that died from disease, parasites, accidents or killed by animals or natural causes.

b (Deaths) How many kids died in the last 12 months? *(Number)*

25 **(Lost)** How many goats and kids have been lost due to strays and theft in the last 12 months? *(Number)*
Do not include goats already reported as having died.

26 **(Home Consumption)** How many goats were slaughtered for your home consumption in the last 12 months? *(Number)*

27 **(Given away)** How many goats were given away in the last 12 months? *(Number)*

28 **(Sold)** a. How many goats were sold or traded in the last 12 months? *(Number)*
Include BMC, auctions, abattoirs, buyers, traders and other farmers.

(Value) b. What was the approximate amount you received from the sale of your goats in the last 12 months? *(Pula)*

29 **(Purchased)** a. How many goats were purchased or obtained in the last 12 months? *(Number)*

(Value) b. What was the approximate value of goats purchased or obtained? *(Pula)*

Part C: Sheep

30 a. Do you or anyone living in your household own, raise, operate or manage any sheep?

(Circle code)
Yes = 1 ⇨ *Question 31*
No = 2

b. Have you or anyone living in your household owned, raised, operated or managed any sheep in the last 12 months?

(Circle code)
Yes = 1 ⇨ *Question 32*
No = 2 ⇨ *Part D of this Section*

31 **(Total)** How many of the following do you have?

		(Number)
1.	Rams 1 year and over	1
2.	Castrated male sheep 1 year and over	2
3.	Female sheep 1 year and over	3
4.	Male sheep under 1 year	4
5.	Female sheep under 1 year	5
6.	**Total (1 to 5)**	6

32 **(Births)** How many lambs were born in the last 12 months?

33 **a (Deaths)** How many sheep, excluding lambs, died in the last 12 months? ***Include those that died from disease, parasites, accidents or killed by animals or natural causes.*** *(Number)*

b (Deaths) How many lambs died in the last 12 months? *(Number)*

34 **(Lost)** How many sheep and lambs have been lost due to strays and theft in the last 12 months? ***Do not include sheep already reported as having died.*** *(Number)*

35 **(Home Consumption)** How many sheep were slaughtered for your home consumption in the last 12 months? *(Number)*

36 **(Given away)** How many sheep were given away in the last 12 months? *(Number)*

37 **(Sold)** a. How many sheep were sold or traded in the last 12 months? ***Include BMC, auctions, abattoirs, buyers, traders amd other farmers.*** *(Number)*

(Value) b. What was the approximate amount you received from the sale of your sheep in the last 12 months? *(Pula)*

38 **(Purchased)** a. How many sheep were purchased or obtained in the last 12 months? *(Number)*

(Value) b. What was the approximate value of sheep purchased or obtained? *(Pula)*

Part D: Other Livestock

39 How many of the following other livestock do you or anyone in your household own, raise, operate or manage?
Read out list and if none write 0

		Current Number	Sold in last 12 months: Number	Sold in last 12 months: Approximate Value (Pula)
1. Pigs	1			
2. Donkeys	2			
3. Mules	3			
4. Horses	4			
5. Dogs	5			
6. Chickens	6			
7. Ducks, turkeys or other birds	7			
Other *(Specify)*				

Section III: Crop Production

Part A: Crop and/or Fallow Field Changes

40 Is this land Molapo or Dry land farming?

	(Circle code)
1. Molapo	1
2. Dry land	2
3. Both	3

41 During our first visit, it was reported that this household had the following crops and fallow fields. Have there been any changes or additions to this list since?

Read out the list and check each field for YES (1) or NO (2). If no crops listed, go to Question 42.

F/No	Crops or Fallow Fields	[Yes = 1, No = 2] Code	F/No	Crops or Fallow Fields	[Yes = 1, No = 2] Code
1			7		
2			8		
3			9		
4			10		
5			11		
6			12		

If a YES is checked i.e. Code 1, make necessary corrections and take field measurements

42 a. Are there any crops or fallow fields that you or members of your household have now but were not mentioned in the above list?

(Circle code)
Yes = 1 ➪ ***Complete (b)***
No = 2 ➪ ***See instruction box below***

b. List the new crops in the box in Question 42 above. Then measure these fields.

Enumerator: If there are no crops listed in the box in Question 41 and the respondent answers NO to Question 42a, then proceed to Section IV.

Part B: Crop Harvest and Production

43 I shall require you to provide me with some particulars of the crop fields mentioned earlier;

Field No.	List crop or crop mixture in each field.	This field: **1 has been harv. 2 will be harv. 3 will not be harv.**	What is the total / expected production from this field? Kind of Unit	Number of Units	Weight of Unit	Month of harvest (Number)	*Office use (Crop Code)*
1							
2							
3							
4							

43 *(Continued)*

Field No.	List crop or crop mixture in each field.	This field: 1 **has been harv.** 2 **will be harv.** 3 **will not be harv.**	What is the total / expected production from this field? Kind of Unit	Number of Units	Weight of Unit	Month of harvest (Number)	***Office use (Crop Code)***
5				.	.		
				.	.		
				.	.		
				.	.		
6				.	.		
				.	.		
				.	.		
				.	.		
7				.	.		
				.	.		
				.	.		
				.	.		
8				.	.		
				.	.		
				.	.		
				.	.		
				.	.		

Part C: Crop Disposal of this year's Harvest

44 Now I would like to ask you about the crops that have been harvested.

(List Crops)

	Crop:	Crop:	Crop:	Crop:	Crop:	Crop:	Crop:	Crop:
a. Office Use (Crop Code)								
b. Office Use (Area Harv.)								
c. Office Use (Production kg)								
d. Home Consumption								
Kind of Unit								
Weight of Unit (kg)								
Number of Units								
Office Use (Qty Kg)								
e. Stored								
Kind of Unit								
Weight of Unit (kg)								
Number of Units								
Office Use (Qty Kg)								
f. Given away								
Kind of Unit								
Weight of Unit (kg)								
Number of Units								
Office Use (Qty Kg)								
g. Sold/Traded								
Kind of Unit								
Weight of Unit (kg)								
Number of Units								
Amount Received (Pula)								
Office Use (Qty Kg)								
h. Expected further sales								
Kind of Unit								
Weight of Unit (kg)								
Number of Units								
Amount Expected (Pula)								
Office Use (Qty Kg)								

Enumerator: Skip Question 45 if there were no crops sold i.e if Question 44(g) is all zero

45 To whom was most of the crops (in Question 44) sold?

(Circle appropriate codes)

1. BAMB directly 1
2. BAMB agent 2
3. Cooperative 3
4. Private trader 4
5. Directly to the public 5

Other *(Specify)* _____

Enumerator: If in Question 43, there were fields coded as 3 (will not be harvested), then proceed to Question 46, otherwise go to Section IV.

46 What was the main reason for not harvesting the crops mentioned earlier (Question 44)?

(Circle appropriate codes)

1. Lack of rain 1
2. Crop destroyed by animals 2
3. Crop attacked by insects (locust etc) 3
4. Crop attacked by pests (quelea birds etc) 4
5. Crop destroyed by weeds 5
6. Crop destroyed by frost 6

Other *(Specify)* _____

Section IV: Farming Practice and Water Supply

47 a. Were any chemical or manure fertilizers used on any of your crop fields?

(Circle code)

Yes = 1
No = 2 ➪ *Question 48*

b. What kind of fertilizers did you use?

(Circle appropriate codes)

1. Chemical only 1
2. Manure only 2
3. Both chemical and manure 3

Other *(Specify)* _____

c. What was the overall quantity (kg) used? *(Kg)* [ ]

48 a. Did you weed your crop fields this year?

(Circle code)

Yes = 1
No = 2 ➪ *Question 49*

b. How many times did you weed your fields? *(Number)* [ ]

49 How many of the following equipment and machinery are available and in working conditions?
Include those temporarily out of order. Specify in 22* – 24* if not listed.

		(Number)			*(Number)*			*(Number)*
1. Harrow	1		9. Rake	9		17. Spray race	17	
2. Single plough	2		10. Wheel barrow	10		18. Spray pump	18	
3. Double plough	3		11. Thresher	11		19. Dip–tank	19	
4. Single planter	4		12. Tractor	12		20. Maize grinder	20	
5. Double planter	5		13. Truck	13		21. Maize sheller	21	
6. Cultivator	6		14. Trailer	14		22*		
7. Mower	7		15. Cart	15		23*		
8. Hoe	8		16. Sledge	16		24*		

50 a. What is the main source of water supply?

(Circle appropriate codes) *(Official Number of Borehole)*

1. Borehole 1 ⇨
2. Open well or sand well (including Shaola) 2
3. Dam 3 *(Name of River)*
4. River 4 ⇨ _____

Other *(Specify)* _____

b. What do you use water for?

(Circle appropriate codes)

1. Irrigation 1
2. Livestock watering 2
3. Household 3

Section V: Economic Section

51 a. What are the sources of cash income for your household?

(Circle appropriate codes)

1. Sale of crop produce 1
2. Sale of livestock 2
3. Income from paid employment 3
4. Sale of other produce 4
5. Income from a business other than farming 5
6. Remittances 6
7. None 7

Other *(Specify)* _____

b. Of the ones indicated, which do you regard as the most important? *(Number)*

52 a. What is the major source of food in this household?

(Circle appropriate codes)

1. Own farm production 1
2. Purchased food 2
3. Government rations 3
4. Supplies from relatives /friends 4

Other *(Specify)* _____

b. Of the ones indicated, which do you regard as the most important? *(Number)*

53 a. Have you heard of the ALDEP programme, that is the Arable Land Development Project?

(Circle code)
Yes = 1
No = 2 ⇨ *Question 54*

b. Do you or anyone in your household participate in the ALDEP programme.

(Circle code)
Yes = 1
No = 2 ⇨ *Question 54*

c. What was the package obtained?

(Circle appropriate codes)

1. Fencing 1
2. Implements 2
3. Draught power 3
4. Water tanks 4

Other *(Specify)* _____

54 a. Did you or anyone in your household receive any credit this year?

(Circle code)

Yes = 1

No = 2 ⇨ *Part c of Question*

b. What was the credit for?

(Circle appropriate codes)

1. Livestock 1
2. Crops 2

Other *(Specify)* _____

c. Did you apply for any credit?

(Circle code)

Yes = 1

No = 2

d. Are you aware of any credit facilities?

(Circle code)

Yes = 1 ⇨ *Part e of Question*

No = 2

(Office Use)

e. Which one? *(Specify)* _____

Section VI Area Measurement of Crop Fields and Fallow Land

1 Sketch Map of Field **Field No:** **Planted (1) / Fallow (2)** *(Code)*

2 Area Measurements (Compass and Chain)

Side	Length(m)	Bearing Forward	Bearing Backward	Inside Angle
AB : BA				
BC : CB				
CD : DC				
DE : ED				
EF : FE				
FG : GF				
GH : HG				

Side	Length(m)	Bearing Forward	Bearing Backward	Inside Angle

3 Supervisor

a. Perimeter Field

b. Closing Error (%)

c. Area

Note: The first inside angle is the difference between the first bearing AB and the last backward bearing (from the starting point A).

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1 Sketch Map of Field **Field No:** **Planted (1) / Fallow (2)** *(Code)*

2 Area Measurements (Compass and Chain)

Side	Length(m)	Bearing Forward	Bearing Backward	Inside Angle
AB : BA				
BC : CB				
CD : DC				
DE : ED				
EF : FE				
FG : GF				
GH : HG				

Side	Length(m)	Bearing Forward	Bearing Backward	Inside Angle

3 Supervisor

a. Perimeter Field

b. Closing Error (%)

c. Area

Note: The first inside angle is the difference between the first bearing AB and the last backward bearing (from the starting point A).

Section VI Area Measurement of Crop Fields and Fallow Land (Cont'd)

1 Sketch Map of Field **Field No:** [ ] **Planted (1) / Fallow (2)** [ ] *(Code)*

2 Area Measurements (Compass and Chain)

Side	Length(m)	Bearing Forward	Bearing Backward	Inside Angle	Side	Length(m)	Bearing Forward	Bearing Backward	Inside Angle
AB : BA									
BC : CB									
CD : DC									
DE : ED									
EF : FE									
FG : GF									
GH : HG									

3 Supervisor

*a. **Perimeter Field***

*b. **Closing Error (%)***

*c. **Area***

Note: The first inside angle is the difference between the first bearing AB and the last backward bearing (from the starting point A).

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1 Sketch Map of Field **Field No:** [ ] **Planted (1) / Fallow (2)** [ ] *(Code)*

2 Area Measurements (Compass and Chain)

Side	Length(m)	Bearing Forward	Bearing Backward	Inside Angle	Side	Length(m)	Bearing Forward	Bearing Backward	Inside Angle
AB : BA									
BC : CB									
CD : DC									
DE : ED									
EF : FE									
FG : GF									
GH : HG									

3 Supervisor

*a. **Perimeter Field***

*b. **Closing Error (%)***

*c. **Area***

Note: The first inside angle is the difference between the first bearing AB and the last backward bearing (from the starting point A).

Section VI Area Measurement of Crop Fields and Fallow Land (Cont'd)

1 Sketch Map of Field **Field No:** **Planted (1) / Fallow (2)** *(Code)*

2 Area Measurements (Compass and Chain)

Side	Length(m)	Bearing Forward	Bearing Backward	Inside Angle
AB : BA				
BC : CB				
CD : DC				
DE : ED				
EF : FE				
FG : GF				
GH : HG				

Side	Length(m)	Bearing Forward	Bearing Backward	Inside Angle

3 Supervisor

Note: The first inside angle is the difference between the first bearing AB and the last backward bearing (from the starting point A).

a. Perimeter Field

b. Closing Error (%)

c. Area

1 Sketch Map of Field **Field No:** **Planted (1) / Fallow (2)** *(Code)*

2 Area Measurements (Compass and Chain)

Side	Length(m)	Bearing Forward	Bearing Backward	Inside Angle
AB : BA				
BC : CB				
CD : DC				
DE : ED				
EF : FE				
FG : GF				
GH : HG				

Side	Length(m)	Bearing Forward	Bearing Backward	Inside Angle

3 Supervisor

Note: The first inside angle is the difference between the first bearing AB and the last backward bearing (from the starting point A).

a. Perimeter Field

b. Closing Error (%)

c. Area

Section VI Area Measurement of Crop Fields and Fallow Land (Cont'd)

1 Sketch Map of Field **Field No:** [ ] **Planted (1) / Fallow (2)** [ ] *(Code)*

2 Area Measurements (Compass and Chain)

Side	Length(m)	Bearing Forward	Bearing Backward	Inside Angle	Side	Length(m)	Bearing Forward	Bearing Backward	Inside Angle
AB : BA									
BC : CB									
CD : DC									
DE : ED									
EF : FE									
FG : GF									
GH : HG									

3 Supervisor

*a. **Perimeter Field***

*b. **Closing Error (%)***

*c. **Area***

Note: The first inside angle is the difference between the first bearing AB and the last backward bearing (from the starting point A).

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1 Sketch Map of Field **Field No:** [ ] **Planted (1) / Fallow (2)** [ ] *(Code)*

2 Area Measurements (Compass and Chain)

Side	Length(m)	Bearing Forward	Bearing Backward	Inside Angle	Side	Length(m)	Bearing Forward	Bearing Backward	Inside Angle
AB : BA									
BC : CB									
CD : DC									
DE : ED									
EF : FE									
FG : GF									
GH : HG									

3 Supervisor

*a. **Perimeter Field***

*b. **Closing Error (%)***

*c. **Area***

Note: The first inside angle is the difference between the first bearing AB and the last backward bearing (from the starting point A).